**Zeyn Schweyk**

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**education**

**Johns Hopkins University and Peabody Institute of Music** Baltimore, MD

*BS* Expected May 2026

* Mechanical Engineering on Aerospace Track, minoring in Entrepreneurship & Management and Piano at Peabody

**Santa Barbara City College** Santa Barbara, CA

*Associates Degrees in Math & Science and Liberal Arts* May 2022

* Dual Enrollment Student throughout high school. HS GPA : 5.0 / 5.0, College GPA: 4.0 / 4.0
* Completed over 60 credits in math, science, CS, history, and music

**work experience**

**Radio Frequency (RF) Software Intern** Goleta, CA

Toyon Research Corporation June 2022 - August 2022

* Created & deployed software for antenna research & testing for defense w/ Visual Studio, .NET Framework, Windows Forms, C++, C#, Git & GitLab
* Built libraries for detailed control of various servo motors working in conjunction w/ one another
* Presented project to employees in industry for 40+ years and received positive feedback

**Software Contractor** Santa Barbara, CA

Santa Barbara Control Systems, Chemtrol Division December 2020 - May 2021

* Designed and created company time-clock system used daily by employees and management w/ Python & SQL
* Implemented multiple versions of desktop applications compatible w/ Windows, Mac, & Linux OS w/ English & Spanish translations, automatic database backups & emails, regular employee reports linked to payroll, vacation & sick accrual, tasks by employee & department, and more
* Pitched and sold system to CEO

**Mechatronics Programmer for Science Museums across CA** Goleta, CA

Dos Pueblos Engineering Academy August 2021 - June 2022

* Designed and created software for various exhibits w/ Arduinos, Raspberry Pis, sensors, & motors during as HS senior
* Implemented and deployed closed-loop feedback control (PID) systems, web servers w/ Apache, database applications, client-server models, Python libraries to PyPI, and worked closely with synthesizers
* Designed minor exhibit components with SolidWorks and machined them w/ lathes, mills, & laser cutters
* View more detailed description of projects here: https://2022mechatronicszeynschweyk.weebly.com/projects.html

**SBPianoBoys Classical Piano Duo** California

SBPianoBoys (www.sbpianoboys.com) January 2014 - Present

* Perform solo, four-hands, & two-piano repertoire regularly at various gigs and venus, teach music to all ages, compose and arrange works
* Competed in and won the Santa Barbara Concerto Competition, state level composition competitions, and various music festivals across CA
* Studied at The Music Academy of the West, The Schwab Academy of Music, Westmont Academy for Young Artists, and Santa Barbara Music and Arts Conservatory

**achievements**

* '22 Student Elected Representative for Mechanical engineering Undergraduate Student Council (MUSC) at JHU
* '22 JHU Clark Scholar Member & Recipient
* '22 Santa Maria Philharmonic Showcase Winner
* '21 AP Scholar w/ Distinction
* '21 FIRST Robotics Tidal Tumble Semifinalist
* '18 Mock Trial Team County Winner as Pre-trial attorney
* '15 Jr. Black Belt in Kung Fu

**specialized skills**

* Programming languages: Python, C++, C#, Java, MATLAB, SQL, HTML, CSS, JavaScript
* Design: SOLIDWORKS, OnShape, & basic CAM software
* Manufacturing: Lathe, Mill, Band Saw, Laser Cutters, 3D Printing, Soldering
* Business: Business Operation & Marketing, Event Planning & Coordination, Public & Motivation Speaking, Bookkeeping, Microsoft Office / Google Suite

**leadership & involvement**

* Riviera Robotics & FIRSt Robotics
* Santa Barbara Architectural Foundation Design Program
* Spreadsheet Club, Founder & President
* American Institute of Aeronautics & Astronautics